

Day One: Wednesday, June 1 (Building 33, Room H114)

8:00am	Registration starts/Coffee/Posters	
8:50am-9:00am	Meeting Welcome	(Betsy Middleton, GSFC)
<u>Session I: Missions (Betsy Middleton/GSFC, Chair)</u>		
9:00am-9:20am	HyspIRI Mission Update Overview	(Woody Turner, HQ)
9:20am-9:40am	Decadal Survey Status & HyspIRI White Paper	(Rob Green, JPL)
9:40am-10:00am	Linkages between HyspIRI Science & International EO Programs	(Miguel Roman, GSFC)
10:00am-10:20am	Coffee Break	
<u>Session II: Terrestrial Ecosystem Priorities (Woody Turner/HQ, Chair)</u>		
10:20am-11:00am	KEYNOTE: The Case for a Global Biodiversity Observatory	(Susan Ustin, UC Davis)
11:00am-11:20am	Survey of science benefits w/spectroscopy	(Rob Green, JPL)
11:20am-11:35am	The future of spectroscopy in Europe	(Andreas Mueller, DLR, Betsy Middleton, GSFC)
11:35am-11:50am	The Fluorescence Explorer (FLEX) Space Mission	(Neus Sabater, U. Valencia)
11:50pm-12:10pm	Discussion: Steps toward achieving the next NASA Spectrometer in Space?	(Woody Turner et al.)
12:10pm-12:20pm	Group Picture	
12:20pm-1:15pm	Lunch /Posters	
<u>Session III: Cal/Val Activities (Chris Neigh, Chair)</u>		
1:15pm-1:30pm	Update on SLI, Landsat & Sentinel- 2	(Bruce Cook, GSFC)
1:30pm-1:45pm	EO-1 Hyperion MS Band Synthesis	(Guoqing Sun, ESSIC)
1:45pm-2:00pm	EOM Cal/Val Studies: Psuedo-Invariant Calibration Sites	(Chris Neigh, GSFC)
2:00pm-2:20pm	The Atmospheric Spectroscopy Spectrum-Matching Technique	(Bo-Cai Gao, NRL)
2:20pm-2:35pm	FUSION: a GSFC Prototype for Field Spectroscopy Cal/Val	(Fred Huemmerich, UMBC)
2:35pm-2:45pm	Coffee Break [10 min, Phil Townsend (U. WI) WebEx Tutorial: EcoSys Spectral Library]	
<u>Session IV: HyspIRI Science Preparatory Activities: Applications (Jeff Luvall, MSFC)</u>		
2:45pm-3:00pm	Perspectives for the NASA Application Program	(Lawrence Friedl, HQ)
3:00pm-3:20pm	The HyspIRI Applications Program	(Jeff Luvall, MSFC)
3:20pm-3:35pm	Sensor Networks, EO-1 Disaster Support	(Stu Frye, SGT)
<u>Session V: HyspIRI Science Preparatory Activities: New Technologies & Products (Dan Mandl/GSFC, Chair)</u>		
3:35pm-3:40pm	Hyperspectral Cubesat Constellation (HCC)	(Dan Mandl, GSFC)
3:40pm-3:55pm	Spectral UAS for Ecosystem Monitoring	(Petya Campbell, UMBC)
3:55pm-4:10pm	AVIRIS Atmospheric Correction & Products	(David Thompson, JPL)
4:10pm-4:30pm	Developments for Onboard Low Latency Products, Co-registration, & AC/Sunglint	(Pat Cappelaere, Vightel)
4:30pm-4:50pm	EOM Impacts of Changing Illumination on Hyperion & ALI collections	(Shannon Franks, SGT)
4:50pm-5:10pm	Mapping Antarctic Vegetation Stress Indicators with Hyperspectral UAS	(Zbynek Malenovsky, GSFC)
5:10pm	Happy Hour & 7+ Flash Talks (2-3 min each)	
6:15pm	Adjourn, Day One	
6:40pm	Holiday Inn Shuttle pick-up from GSFC Visitor Center Parking Lot	

Day Two: Thursday, June 2 – (Building 33, Room H114)

8:00am

Registration

Session VI: HyspIRI Preparatory Activities: Airborne Campaigns (Simon Hook, Chair)

8:30am-8:45am

Perspectives on the HyspIRI Airborne Campaigns

(Jack Kaye, HQ)

8:45am-9:00am

HyspIRI Airborne Campaigns - Overview

(Rob Green, JPL)

9:00am-9:15am

Mineral Maps Covering the Salton Sea Areas of S. California

(Lyle Mars, USGS)

9:15am-9:30am

Ground Measurement Support for Airborne Campaigns

(Susan Ustin, UC Davis)

9:30am-9:45am

Monitoring water quality & soils at Leviathan Mine

(Wendy Calvin, U. Nevada)

9:45am-10:00am

Spectral-structural interactions at fine-scales

(Jan van Aardt, Rochester Inst.)

10:00am-10:15am

Surface radiation & energy budget from AVIRIS and MASTER

(Dongdong Wang, UMD)

10:15am-10:30am

Volcanoes in Hawaii

(Vince Realmuto & Simon Hook, JPL)

10:30am-10:45am

Linking Ecosystem Models with Imaging Spectrometry Measurements

(Paul Moorcroft, Harvard U.)

10:45am-11:05am

Coffee Break

Session VII: Addressing International Space Station Assets & Issues (Steve Ungar/USRA, Chair)

11:05am-11:20am

GEDI

(Bryan Blair, GSFC)

11:20am-11:35am

HICO Time Series for GPP

(Fred Huemrich, UMBC)

11:35am-11:55am

EO-1's Changing Precession Provides Relevance to ISS & Other EOS

(Steve Ungar, USRA)

11:55am-12:10pm

DESI Spectrometer on ISS

(Ray Perkins, Teledyne Brown)

12:10pm-12:25pm

Update on ECOSTRESS

(Simon Hook, JPL)

12:25pm-12:40pm

Discussion: Synergies among Orbital Assets

(Simon Hook, JPL)

12:40pm-1:30pm

Lunch /Posters

Session VIII: HyspIRI Science Preparatory Activities: Carbon & Water Science (Petya Campbell/UMBC, Chair)

1:30pm-1:50pm

ET High Res Applications in Agriculture

(Martha Anderson, USDA-ARS)

1:50pm-2:05pm

Hyperion Detection & Characterization of the CA Methane Event

(David Thompson, JPL)

2:05pm-2:20pm

Detection of Methane and Other Trace Gases with HyTES

(Glynn Hulley, JPL)

2:20pm-2:35pm

Improving GPP Estimation in CLM using the MODIS fAPARchl Product

(Tian Yao, USRA)

2:35pm-2:55pm

Uncertainties in Various Estimates of fAPAR for Photosynthesis (fAPAR_PSN)

(Qingyuan Zhang, USRA)

2:55pm-3:10pm

EO-1 Spectral Time Series for GPP

(Petya Campbell, UMBC)

3:10pm-3:30pm

Coffee Break

Session IX: HyspIRI Science Preparatory Activities: Various (Fred Huemrich, Chair)

3:30pm-3:50pm

Cross-calibration of MODIS and Landsat using EO-1 Hyperion

(Amit Angal, SSAI)

3:50pm-4:05pm

Cryosphere Study in Michigan

(Chris Crawford, GSFC)

4:05pm-4:20pm

Urban Applications

(Dale Quattrochi & Jeff Luvall, MSFC)

4:20pm-4:35pm

Improving Forest Modeling with Spectrally Derived Traits

(Amanda Armstrong, USRA)

4:35pm-4:50pm

REMOTE: Novel Algorithm for Microcystis Observations in Lake Erie

(Joe Ortiz, Kent State)

4:50pm-5:10pm

Symposium Wrap-Up Discussion

5:10pm

Adjourn, Day Two

5:30pm

Holiday Inn Shuttle pick-up from GSFC Visitor Center Parking Lot

6:00pm-8:00pm

Social Hour & Dinner at Sir Walter Raleigh (6323 Greenbelt Rd, Greenbelt, MD)

Day Three: Friday, June 3 (Building 34, Room W150)

8:00am

Registration

Session X: Science Study Group Round Table (with telecom access)

8:30am-10:00am

Topics: IGARSS 2017 Plan for Publications using DS RFI#2s

10:05am-10:45am

Coffee Break

Aquatic Forum

Aquatic Forum Intro (Kevin Turpie, Chair)

10:45am-11:05am

Welcome, HyspIRI Overview, and ASG Activity Update

(Kevin Turpie, UMBC)

Session XI-A: Aquatic Airborne Campaigns

11:05am-11:30am

REMOTE: APEX Airborne Hyperspectral Data over European Coasts

(Sindy Sterckx/Els Knaeps, VITO)

11:30am-11:45am

CORAL and HyspIRI Airborne Campaign – Hawaii

(Rob Green, JPL)

11:45am-12:00pm

G-LiHT Flights over Southern Florida Mangroves

(David Lagomasino, USRA)

12:00pm-12:15pm

Airshrimp Airborne Campaign

(John Moisan & Tiffany Moisan, WFF)

12:15pm-1:00pm

Lunch

Session XI-B: Aquatic Airborne Campaigns

1:00pm-1:15pm

CyAN Project

(Jeremy Werdell, GSFC)

1:15pm-1:30pm

Airborne Hyperspectral Observation of Harmful Algal Bloom

(Larry Liou, GRC)

1:30pm-1:45pm

Assessing seagrass ecosystems from hyperspectral remote sensing imagery: distributions and carbon dynamics

(Heidi Dierssen, U. Conn)

1:45pm-2:00pm

REMOTE: In-Water Observations and HyspIRI Preparatory Airborne Campaign

(Raphe Kudela, UCSC)

2:00pm-2:15pm

Coffee Break/Group Picture

Session XIII: Aquatic Missions

2:15pm-2:35pm

GeoCAPE Mission Update

(Antonio Mannino, GSFC)

2:35pm-2:55pm

PACE Mission Update

(Jeremy Werdell, GSFC)

2:55pm-3:15pm

HyspIRI Water Temperature Measurements

(Glynn Hulley & Simon Hook, JPL)

3:15pm-3:45pm

Discussion Topic: *Types of Data Needed for Coastal and Inland Data Product Development*

3:45pm

Adjourn, End of Symposium

4:15pm

Holiday Inn Shuttle pick-up from GSFC Visitor Center Parking Lot